USER MANUAL

English

First of all，thank you for your choice on the handheld laser distance meter.

Please carefully read the safety instructions and the user manual before using this product，otherwise it may result in hazardous laser radiation and electric shock.The person responsible for the equipment must ensure that all users understand these directions and adhere to them.

Safety Instructions

1.This product is a class Ⅱ laser product. Please DO NOT stare into beam at any time when operating this product!
2.Please DO NOT Looking directly into the beam with optical aids (e.g.binoculars，telescopes)!
3.Please DO NOT remove any safety labels this product!

Equipment Performance

1.Measuring range is from 0.05 to 50m;
2. Calculation function:
    a. Area b.Volume c.Height (Pythagorean theorem)
    d. Addition and subtraction
3.Storage and recall of measurement results
4.Metric and British unit system
5.LCD with background light
6.Automatically switch off

Technical Parameters:

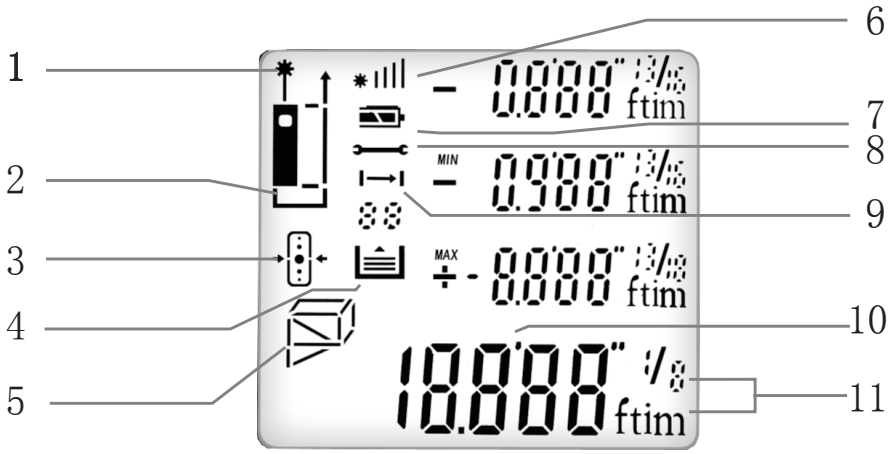
Technical Specifications	
Measuring accuracy typically （m_d Stand deviation）	±2mm
Range	0.05~50m(A-7)/100m(A-11)
Laser type	635nm,＜1mW,classs2
Distance in m ⌀ laser spot in mm	10,50m, 6,30mm
Measurements per battery set	up to 5000
Distance unit	0.000m, 0’00” , ft, in
Operating Temperature	0~+40℃
Storage Temperature	-20~+70℃
Minimum and maximum measurements	√
Continuous measurement	√
Addition/subtraction	√
Area/volume/pythagorean measurements	√
Spray proof/dust protected	IP54
Batteries	AAA×1.5V
Weight with batteries	215g
Dimensions	126×50×28mm

Prohibited Use

1. Opening of the equipment by using tools (screwdrivers， etc.)， as far as not specifically permitted for certain cases
2. Aiming directly into the sun
3. Using outside the stated limits
4. Immersing the equipment in water
5. Cleaning the lens using alcohol or any other organic solvent
6. Wiping the lens directly with fingers or other rough surfaces
7. Powering the equipment beyond the rated DC voltage

LCD Icon indication	keypad functions
1 LASER "ON"	12 POWER ON/ MEASURING - KEY
2 REFERENCE	13 AREA/VOLUME/PYTHAGORAS - KEY
3 LEVEL INDICATION *	
4 HISTORICAL READINGS	14 PLUS[+] - KEY
5 AREA/VOLUME/PYTHAGORAS	15 BACK LIGHT/UNIT- KEY
6 SIGNAL POWER INDICATION	16 REFERENCE - KEY
7 BATIERY STATUS	17 MINUS[-] - KEY
8 REPARING	18 CLEAR/OFF - KEY
9 CONTINUOUS MEASREMENT	
10 CURRENT READING	
11 UNIT	

LCD and keypad description



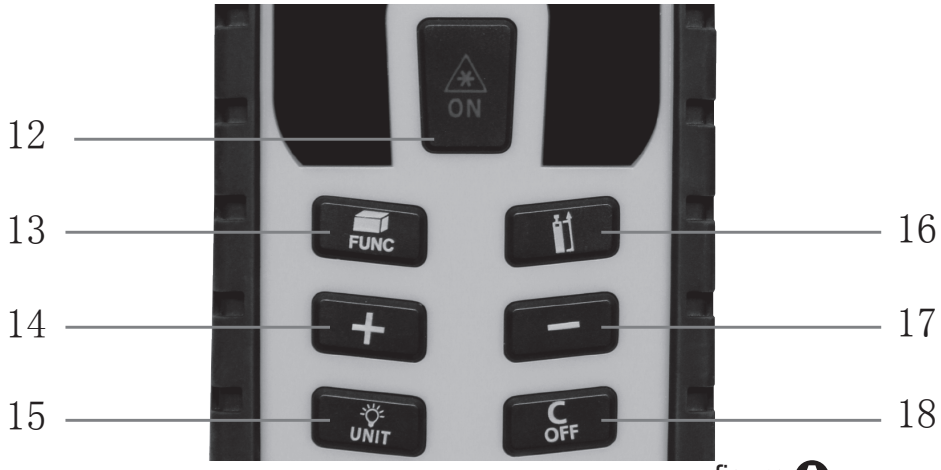


figure A

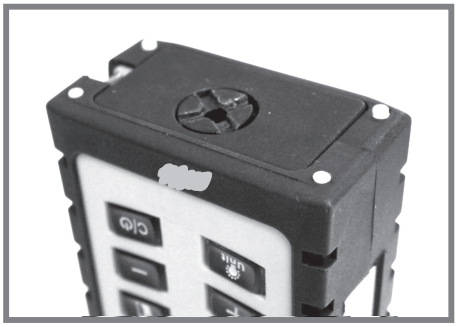
Start-up

1. Battery Installation

a. According to figures，remove battery compartment lid with specified battery key;

b. Insert batteries with correct polarity according to battery lid indications;

C.Close the battery compartment lid and skew tight with the battery compartment key;



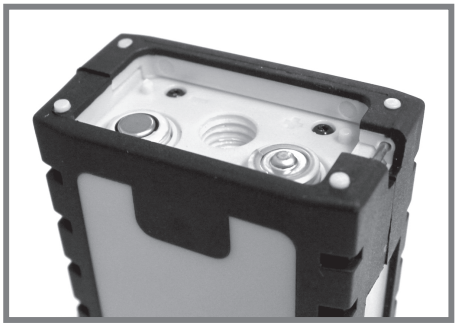


figure B

*Caution:

1. Please do not mix new and old batteries，Use alkaline batteries or rechargeable batteries only
2. Please replace batteries when the symbol flashes permanently in the display
3. Please remove the batteries before any long period of non-use
4. Flat batteries must not be disposed of with household waste. Care for the environment and take them to the collection points provided in accordance with national or local regulations

Equipment operation

Switch on and off

Long-time press ON button to switch on the equipment with default reference setting of single measurement mode，rear reference and metric unit system; At the same time battery state and laser reflection signal intensity indication as shown as figure C;

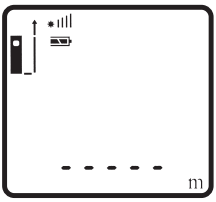


figure C

Clear Button

Pressing C/⏻ button to clear the last command or displayed data by lines;

Change Measurement Reference

Default setting of measurement is rear edge when switching on .Pressing this button will change the measurement reference;

Display Background Light

Unit Default setting of LCD background is switching off. Pressing the button will switch on or off LCD background light;

Unit Conversion

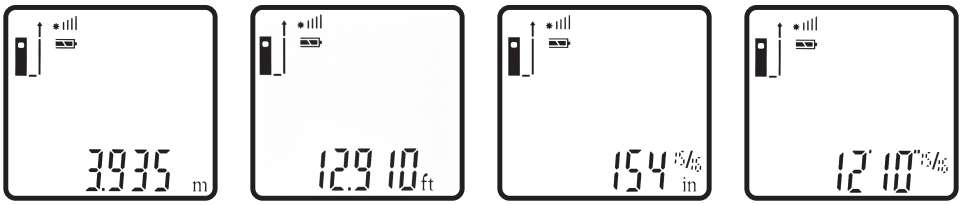


figure D

Default setting of measurement unit is metric unit. Long-time pressing Unit button will convert metric unit British unit from ft, in to ' " and so on as shown in figure D.

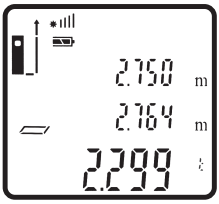


figure D

Measurement

Signal-mode Measurement

When equipment is switched on,pressing ON button to activate the laser and aiming the laser onto target and pressing ON button gain to trigger single-mode measurement,the result is displayed immediately as shown in figure E.

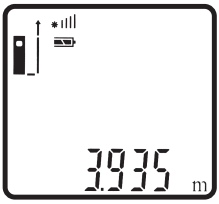


figure E

Continuous-mode Measurement

When equipment is switched on, long-time pressing ON button trigger continuous-mode measurement with symbol flashing
MIN: MINIMUM VALUE
MAX:MAXIMUM VALUE
Current measurement value is displayed in LCD bottom line as shown in figure F .

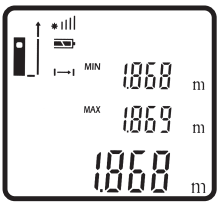


figure F

Functions

Area, Volume, Indirect Measurement (Pythagorean Theorem)

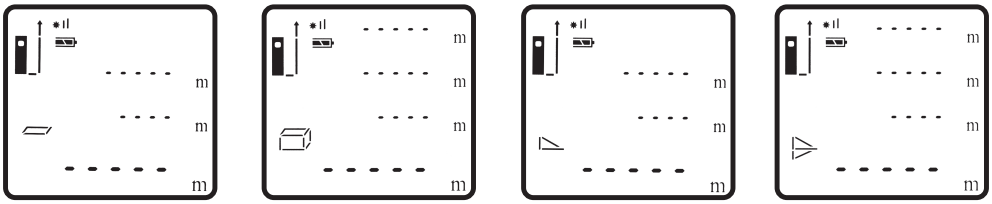


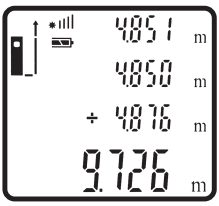
figure G

Press button to change measurement functions,respectively,as shown in figure G;select corresponding function and begin the measurement;

Measurement Functions	Lcons	Measurement Sequence
Single-mode Measurement	ON	
Area Measurement		
Volume Measurement		
Height Measurement 1		
Height Measurement 2		

Addition and Subtraction Functions

+ The next measurement is added to the previous one



- The next measurement is subtracted from the previous one, as shown in figure H

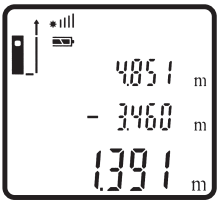


figure H

Storage and recall of measurement results

The equipment will automatically store the last 50 measurement results at reverse time. On standby state, shown in figure I, pressing + or - buttons will recall historical measurement results with the first reading as record No.1 and so on. When 50 records are full, the equipment will directly delete the first reading and store the current reading

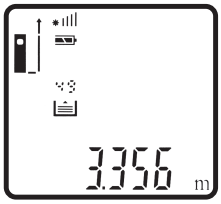


figure I

Appendix

Message Code

Message Code	Cause	Remedy
101	Battery too low	Change batteries
104	Calculation error	Repeat procedure
152	Temperature too high	Cool down equipment
153	Temperature too low	Warm up equipment
154	Out of range	Please measure target within distance of 0.05 to 50m
155	Received signal too weak	Use target plant
156	Received signal too strong	Use target plant
157	Wrong measurement or background brightness too high	Darken target or change target
160	Shake too much	Stabilize equipment and repreat measurement

Important Icons

Icons	Content	Description
	Flashing	Continuous measurement
	Received singal Power indicator	More singal power bar indicates stronger reflection singal with faster measurement speed and higher accuracy
	Batter indicator	More battery bar indicates more battery energy;Flash of this icon means batteries run out
	Data storage	Measurement results are stored at reverse time
	Hardware error	Switch on/off the equipment several times. if the symbol still appears,then your instrument is defective.please call your dealer for assistance

Warranty

We guarantees TWO-year warranty .
All illustrations, and technical specifications may be subject to change whitout prior notice.

Technical parameters of the product abide by the (GB/T 14267-2009) of the P.R.C.National Standard.